

19970609.qrp qrp-por0.751

>From owner-qrp-l@Lehigh.EDU Sun Jun 8 18:03 CDT 1997
>Received: from sco.theporch.com (sco.theporch.com [207.234.31.38])
> by uro.theporch.com (8.8.6.Beta5/A-UX-3.0.1) with ESMTTP id SAA15771
> for <shimshon@uro.theporch.com>; Sun, 8 Jun 1997 18:03:44 -0500 (CDT)
>Received: from fidoii.CC.lehigh.EDU (fidoii.CC.lehigh.EDU [128.180.1.4])
> by sco.theporch.com (8.8.6.Beta5/SCO-5.0.2) with ESMTTP id XAA03281
> for <shimshon@theporch.com>; Sun, 8 Jun 1997 23:03:39 GMT
>Received: from Lehigh.EDU ([127.0.0.1]) by fidoii.cc.Lehigh.EDU with SMTP id
<35171-41218>; Sun, 8 Jun 1997 19:03:21 -0400
>Date: Sun, 8 Jun 1997 19:03:08 EDT
>Sender: owner-qrp-l@Lehigh.EDU
>Precedence: bulk
>From: qrp-l@Lehigh.EDU
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: QRP-L digest 751
>Mime-Version: 1.0
>Content-Type: text/plain; charset=us-ascii
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>Message-Id: <97Jun8.190321edt.35171-41218+105@fidoii.cc.Lehigh.EDU>
>Status: 0

QRP-L Digest 751

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by "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
- 11) [21026] Re: Halogen lights & QRN source
by "Dave Yanke" <n9ssg@pobox.com>

- 12) [21027] Re: Book - Build Your Own Intelligent Amateur Radio Transceiver
by "Craig B. Johnson" <johns516@maroon.tc.umn.edu>
- 13) [21028] RF Interference in a Neon
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- 14) [21029] W0CH - Dave, where are you?
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- 15) [21030] Re: Halogen lights & QRN source
by "M. Monninger" <markem@primenet.com>
- 16) [21031] Battery Chargers
by Michael Vines <mvines@pacbell.net>
- 17) [21032] FS Bencher Paddle
by "Brian K. Short" <ke7gh@primenet.com> (by way of "Brian K. Short"
<KE7GH@PRIMENET.COM>)
- 18) [21033] Re: Battery Recharge Help
by Ricky McNelly <72507.235@compuserve.com>
- 19) [21034] Re: RF Interference in a Neon
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- 20) [21035] Re: The New Wilderness SST Transceiver
by Bigbob97@aol.com
- 21) [21036] RFI in my Neon, continued
by Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
- 22) [21037] Halogen Lights and QRN
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- 23) [21038] Re: [20988] Build Your Own Intelligent Amateur Radio Transceiver
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- 26) [21041] Automotive RFI series in QST
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- 27) [21042] Re: The New Wilderness SST Transceiver
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- 28) [21043] Re: anodizing
by Dana E Hager <dehager@ix.netcom.com>
- 29) [21044] QRPP Journal Dec. 1996
by n4so@juno.com
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by Craig LaBarge <LaBarge_C@CompuServe.COM>
- 31) [21046] TT 1340
by K4NK@aol.com
- 32) [21047] FS:GM30
by "Kenneth W. Evans" <w4du@bellsouth.net>
- 33) [21048] INFORMATION J-38 KEYS
by Mark Gilger <mgilger@concentric.net>
- 34) [21049] FS Bencher Paddle
by "Brian K. Short" <KE7GH@primenet.com>
- 35) [21050] crystal filter question

- by Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>
- 36) [21051] AADE Filter Design Update
by Neil Heckt <neil@aade.com>
- 37) [21052] Re: TT 1340
by Richard Powell <ripowell@mpna.com>
- 38) [21053] HW8 question
by n4js@amsat.org (John Sielke)
- 39) [21054] Re: QEX Subscribers take note
by Raventhorne <jelder@ix.netcom.com>
- 40) [21055] Re: W7EL's address
by Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
- 41) [21056] HW8 toroids
by n4js@amsat.org (John Sielke)
- 42) [21057] 38-Special called for.
by wb2vuo@juno.com (William K Hibbert)
- 43) [21058] A Cautionary Tale
by Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
- 44) [21059] 24 hr clocks summary
by Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>

Date: Sat, 7 Jun 1997 16:42:05 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-l@Lehigh.EDU
Cc: azqrp@dancris.com
Subject: [21016] June ScQRPion Gathering - Notes
Message-ID: <199706072342.QAA11476@usr07.primenet.com>

Howdy Folks,

Well the June ScQRPion gathering is over and done. As usual we sat around, socialized, chatted, checked out the latest toys, badgered each other (not in the painting sense... :-)), and even managed to pick out a spot for Field Day.

Over 15 QRPers showed up, plus family, so it made for a nice gathering.

Newly-HF-active N7XJW (Bertie) was dragged into the ScQRPion fray. Bertie is the wife of KI7MN (ScQRPion Bob) and, as you may recall, got on HF CW for the first time during their recent camping trip. We're already planning on sticking her at her own Novice/Tech+ station for Field Day. By the time it's over, she'll be ready for her General. :-)

In a surprise discovery, Fran (wife of Kent AB70A) let it slip that she's working on her Tech license. Bertie was doing a first class job of subtly badgering Fran into getting her code upgrade though.

Now if anyone could help me figure out how to get *my* spouse interested in hamming.... Bertie, drop on by and see what you can do. :-)

This meeting could also be subtitled, "Attack of the Rugrats". Brian Short (K7ON) brought his 7-year-old son, Gary (AB7MY) had his 4-year-old daughter (along with his wife), and I brought my 3- and 5-year-old boys. It's called early recruitment, folks. :-) And yes, all the little critters were well behaved.

Brian (W5VB0) is now the ScQRPion Field Day Grand Poobah. I think the decision was made while he was in the bathroom and unable to defend himself. (This is actually the proud tradition in which many ScQRPion duties are assigned. :-))

Jerry (W5JH) brought a 38spl and atomic keyer in some nifty enclosures (Radio Shack modem cases, I think - looked very nice!) , Gary (AB7MY) brought his ARK-30 along, and Floyd (N07K) brought his Explorer (prize for winning the Fox Hunt) that he souped up to do 8+ watts out. We'll stick a field strength meter near his QTH to make sure he keeps it under 5w though. :-)

Founding Critter Dave Little (AF5U) was able to make it too, perhaps just in time before relocation takes him far away. Bummer. And 7J3AAL/N1CK (Bob), our rare DX ScQRPion, was finally back in town.

Mike (N07K) and a few others were conspicuously absent. ScQRPion agents will be sent to their homes tonight to verify they had a good excuse, or we'll put *them* in charge of Field Day, FYB0, rosters, and any other punishment we can think of. ;-)

That's about it. Thanks to all who showed up - very nice way to spend the day. Sure beat doing yardwork!

Partial attendance list:

K7ON (Brian Short) and son
AB7MY (Gary Surrency) and family
KI7MN (Bob Hightower)

N7XJW (Bertie Hightower)
AB7OA (Kent Torrel) and wife
KJ7YN (John Nystedt)
AB7TT (Joe Gervais) and kids
W2GOB (Bert Davidson) - Just himself. :-)
W9UQB (Mike Todd)
N7VE (Dan Tayloe)
7J3AAL/N1CK (Bob Nichols) - DX ScQRPion
W5JH (Jerry Haigwood)
NQ7X (Floyd Smithberg)
W5VBO (Brian Kassel)
AF5U (Dave Little) and wife
???? (Alex) - Sorry you left w/o signing the sheet!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"It was the monkeys! The monkeys did it!"

Date: Sat, 07 Jun 1997 18:48:48 -0500
From: Karl Heimbach <heimbach@concentric.net>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [21017] Heath HW-8 VFO - dead and need suggestions please
Message-ID: <3399F360.3B8E@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gentlement and ladies,

Last February, at a hamfest in Mississippi, I bought a what appeared to be a fairly nice HW-8. A query to the owner concerning its operability brought the familiar, "Well, it worked the last time I used it".

After getting it home and finding that it was not as advertised, I resigned myself to the task of fixing it.

Over the last few months, I've fooled with it off and on and have made some progress. However, I can't get the VFO to oscillate. I just pulled the VFO air variable for the second time and checked it again; all is well with the cap. I've checked every transistor and diode in the radio and have replaced all that were found open. Listening from 5.5 Mhz to 8.5 Mhz on a receiver, I hear no sign of the VFO. I've pulled the cover from L901 and everything looks okay.

The heterodyne frequency oscillator works fine, the audio section is okay, the sidetone works, and the radio will key. I suspect the mixer amplifier section is fine too, but can't check it without getting the VFO working.

Has anyone had a similar experience or have any idea of what to check next?

All replies appreciated.

Thanks,

Karl - W5QJ

Date: Sat, 7 Jun 1997 16:57:16 -0700
From: faunt@netcom.com (Doug Faunt N6TQS +1-510-655-8604)
To: AA0QX@prodigy.net
Cc: qrp-1@Lehigh.EDU
Subject: [21018] Re: [20988] Build Your Own Intelligent Amateur Radio Transceiver
Message-ID: <199706072357.QAA10548@netcom21.netcom.com>

I dunno. A VCO with a motor and a drum seems like a strange way to go, but YMMV.
73, doug

Date: Fri, 06 Jun 1997 21:56:20 -0500
From: AA0QX <AA0QX@prodigy.net>

I, too, am planning to purchase this book, and I'm interested in building the rig if there are those who want to order parts together.

Thanks,

Austin AA0QX

Date: Sat, 7 Jun 1997 17:10:04 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-1@Lehigh.EDU
Subject: [21019] Anodizing Aluminum

Message-ID: <19970607.171005.10246.0.gsurrency@juno.com>

Friends,

Be careful handling Drano (granulated). It contains Sodium Hydroxide, NaOH, a very strong base (lye) that is poisonous and will dissolve skin. Check out the skull and crossbones warning on the label. It will also burn many organic substances like clothing, wood, paper, etc. It will etch some metals (obviously), so don't get it on anything you value. You can ruin the metal in your sink basin if you allow it to sit too long on the stopper valve. It is the exact opposite of an acid. Avoid pouring the solution down the sink, without neutralizing it first or greatly diluting it with lots of water.

Acids are hydrogen liberators, bases are oxygen liberators. Acids lower pH, bases raise pH. Bases are way up the pH scale at 14, acids are at the opposite end, 0 (zero). Neutral is pH of 7. If you get any lye on you, use a mild acid like vinegar to help neutralize it. Your skin feels slippery, because it is dissolving.

I'm working from memory of my college chemistry classes, so I hope that info is correct. :-)

Also note that there are other ingredients in Drano that are NOT conducive to good Anodizing, like aluminum particles. The aluminum chips are intentionally added to Drano to cause heat and agitation to clean drain pipes. Better to use Red Devil Lye for etching that is relatively free of other compounds. There is a brief section in my 1995 Handbook on preparing aluminum, page 25.24. You may find a lot more info on the Web, but in any case (!) be careful with these compounds. The odor alone will drive you out of the house seeking fresh air.

Commercial companies use dye to achieve the different shade of Anodizing, such as red, green, blue, etc. The etched metal retains the dye very well, since there is an oxidized surface to adhere to. It is very hard, similar to aluminum oxide as used in abrasives and sandpaper coatings. 3M wrote the book on that topic! :-)

Better to use crinkle paint or a Krylon finish. It is a lot easier and less messy.

Kids, don't try this at home. ;-)

72,

Gary Surrency AB7MY

QRP-L #571 Chandler, AZ (near Phoenix) Grid Square DM43BH

Az ScQRPions

Date: Sat, 7 Jun 1997 17:27:00 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-l@Lehigh.EDU
Subject: [21020] Halogen Lights
Message-ID: <19970607.172718.10246.1.gsurrency@juno.com>

Besides their propensity to ignite things, halogen lights without a proper lens or glass coating emit large amounts of UV light that will harm your vision, fade paint and wood, etc., etc. Yikes! =:-@

Best to pass them by and invest in something less hazardous. Let the jewelry shops and department stores ruin their vision and add to their insurance losses.

Tell the XYL there are a lot of lighting alternatives that won't burn the house down or make you go blind. Besides, many of these things use 300w bulbs that are huge energy consumers and are simply too bright without a dimmer. And you know what THOSE do to radio reception. :-p

Go with track lights, flourescents (bad EFI sources, too), indirect lighting, etc. , etc.

Just say no to halogen.

72,

Gary Surrency AB7MY
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH
Az ScQRPions

Date: Sat, 7 Jun 1997 20:52:36 -0400 (EDT)
From: NilsBull@aol.com
To: QRP-L@Lehigh.EDU
Subject: [21021] Anodized aluminum cases & Draino
Message-ID: <970607205234_614182498@emout17.mail.aol.com>

Somebody on this list said: "You can soak an aluminum case in Draino and warm water (plastic bucket) (watch the fumes) for about an hour or so - and wipe off the black residue once or twice. After washing it off with soap and water it comes out pretty good."

And for the not-so-insanely-brave, try this one:

I applied rub-down label lettering to the aluminum front panel of a radio after I'd drilled and finished it. It was a project from my "big boxes of heavy crap" period. Anyway, rubbed on the labels and burnish the face of the labels with some "parchment" paper.

Then I stuck the panel face down in a tray of that brown, nasty stuff that people etch circuit boards in. Ferric chloride or whatever. The crap you can get in a bottle at Radio Shack. Anyway, I stuck the panel in there and watched the whole thing get fummy and bubbly and smelly and stuff.

Then I took the panel out of the chemicals and washed it down real good with warm water. When I dried it off with a towel -- and it took a couple washings to get the nasty black grunge off it -- the label letters came off. Underneath where the label letters had been was the shiny, un-chemicalized outline of the letters.

No, it weren't relief fancy schmancy and it probably only looks good to a weirdo like me. But I figured it was pretty neat. Brush aluminum with shiny letters by the controllls.

Not sure I want to mess with sulphuric acid. Sounds too much like a Batman & Robin adventure to me.

"And now, my young pretty, you will die! Hah hah hah hah heh heh hee hee hee!"

73

Nils

WB8IJN &c

. . . . I'm really interested in this "intelligent transciever" stuff. Lawd knows I need a radio that's smarter 'n me. Which, when you think of it, would be pretty easy to do. An old ignition coil, some wire . . . two chickens . .

.

Date: Sat, 07 Jun 1997 22:43:47 -0400
From: Ed Tanton <n4xy@bellsouth.net>
To: gsurrency@juno.com
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [21022] Re: Anodizing Aluminum
Message-ID: <3.0.1.32.19970607224347.00a91210@mail.atl.bellsouth.net>
Mime-Version: 1.0

Just finished building the Rainbow Tuner. I am going to try to put it in an Altoids tin. We'll see...

Also ordered a 38 Spl, and one of the Custom Enclosures. I am going to try building it with all the stuff from the gitgo. I printed all the mods, etc., from the Norcal Page, which include everything that was in QRPP, so hopefully, it will work. I still can't decide what to do about the RIT.

Got my SLV loaded up in a fishing rod case, ready to go with me, probably on Tuesday. Will try to get on 20 and maybe 40 from the bay, if the fish aren't biting too furiously. (Maybe 17, if it's open). Hope to work some of the qrp-l group, QRP/Marine Mobile.

<pre> _ _ _ _ _ _ _ _ _ _ \ _ / _ . ' _ _ \ _ _ \ _ \ _ \ _ _ / _ _ /</pre>	John L. Sielke n4js@amsat.org n4js@pobox.com n4js@n4js.ampr.org NJ Grid:FM29LN http://www.qsl.net/n4js NJ-QRP #57 QRP-L #884 QRP-ARCI #9328 NE-QRP #507 G-QRP #9544 Norcal #1989 QCWA CQrp CQC ARS #243 FISTS #2781 Formerly: K3HLU, W7JEF, W4MPC, TF2WKT
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Date: Sat, 07 Jun 1997 20:54:26 -0600
From: "John A. Evans" <jaevans@codenet.net>
To: qrp-l@Lehigh.EDU
Subject: [21024] Re: Halogen lights & QRN source
Message-ID: <3.0.1.32.19970607205426.006de4ec@codenet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

More importantly, those halogen lights are a severe fire hazard. They have been lambasted by many a consumer rag and have been the cause for drapery fires around the US. If the wife doesn't care about QRN, she may be concerned about safety. Also, from my experience in Maryland, if you get bugs in the house at all, they will attract, kill, and cook the carcasses - and it WILL STINK.

nuff said,

john - n3qoo - brand spanking new EXTRA as of 2:30 PM MDT today !!!

73/72

John A. Evans	System Architect
Office: (719) 592-9667	Compuware Corporation
Fax: (719) 592-9534	5575 Tech Center Drive, Ste 212
email: jaevans@codenet.net	Colorado Springs, CO 80919

Norcal #262 QRP-L #219 QRP-ARCI #8303 NE-QRP #213 CQC #045
CQrp #15 NJ-QRP #50 AK-QRP #52 NW-QRP #454 FISTS #3184
Personal Web Page: <http://www.geocities.com/capecanaveral/9773/>

Date: Sun, 08 Jun 1997 03:10:20 -0400
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
To: qrp-l@Lehigh.EDU
Subject: [21025] Halogen lights & QRN source
Message-ID: <3.0.16.19970608030950.26af8600@som-uky.campus.mci.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Oh man are those things full-o noise. *I* bought one soon after moving into the new house a couple years ago. Had it in the spare bedroom. Attic antenna. 80m. You get the picture -

Wife: "hon, where's the checkbook?"
Me: "It's in the spare bedroom... I'll get it as soon as I finish this qso with <phzzzeeeeowwwwzzzzpht>... uhh, well, never mind. I'll get it now."

later that day -

Wife: "hon, can you help me pin this quilt in the bedroom?"
Me: "Give me a lil while. I just checked into this grp net, and it's almost my turn. I'll be there as soon as I <phzzzzeeeeeowwwwzzzzzpht>... huh?
uh... coming dear."

Rumor has it that halogen lamp sales go thru the roof right before major contest weekends.

...Ric<phzzzeeeeowwwwzzzzpht>h

Date: Sun, 8 Jun 1997 04:22:21 -0000
From: "Dave Yanke" <n9ssg@pobox.com>
To: "John A. Evans" <jaevans@codenet.net>, qrp-1@Lehigh.EDU
Subject: [21026] Re: Halogen lights & QRN source
Message-ID: <199706080316.WAA19108@mail.xnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Congratulations!!!!!!!!!!

> john - n3qoo - brand spanking new EXTRA as of 2:30 PM MDT today !!!
>

All that coruscates with replendence will not assay
auriferous.

Dave Yanke - N9SSG

mailto:n9ssg@pobox.com <http://www.pobox.com/~frrl>

PGP Public Key: <http://www.xnet.com/~n9ssg/pkey.htm>

Date: Sat, 7 Jun 1997 22:18:32 -0500
From: "Craig B. Johnson" <johns516@maroon.tc.umn.edu>
To: <qrp-1@Lehigh.EDU>
Subject: [21027] Re: Book - Build Your Own Intelligent Amateur Radio Transceiver
Message-ID: <339a256534bf009@mhub1.tc.umn.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Homebrewers,

Glad to see others are finding this book interesting too.
First of all, once again here is the book's identification:
 Build Your Own Intelligent Amateur Radio Transceiver
 By Randy L. Henderson
 1997, McGraw-Hill
 ISBN 0-07-028264-1
 \$29.95

Now a reply to some comments:

>Gang,

>This book is full of great stuff, and I am very glad I found it on the shelf
>in Borders this week in NYC. But some parts of the rig are quite daunting.
> For one thing, the frequency control system requires a motor driven capacitor which strikes me as quite kludgy, and this is a turn off for me.
I

The author is only using the motor driven capacitor as an example along the way. This is a "throw away" piece in that the final product that he describes DOES NOT use the motor kludge.

>would think, though, that some of the good quality direct digital synthesis systems already out there in kit (S & S have a handsome one, for example) could be set up to meet the VCO requirements with some freg multiplying/mixing. This would eliminate the rather complex frequency generating system, but would result in a somewhat less sophisticated display/control system. Also, one of the IF freqs is intentionally up at >72MHz which is very high and will make for some very interesting building/troubleshooting for many of us. On the other hand, having already read the author's rationale for this high IF, I can see where it will give >very high end results, if implemented correctly.

Randy talks about many different methods of generating the frequencies. He mentions DDS in passing (page 98, and again on page 146) but passes on to other methods because he said DDS "generates spurious components in the output spectrum". I am sure there are many things to watch out for with DDS, but I think the new AD9850 DDS chip, for example, certainly looks like an interesting candidate to try. (Has anyone tried building with one of these yet?)

Randy's final synthesized frequency method is a little confusing at first (at least for me) in that it uses two different loops, one for coarse tuning using a conventional PLL, and one fine tuning loop which controls a reference VX0. The 80C31 microprocessor controls the loops. Clever.

> I for one am not ready for a project of this magnitude/complexity. But the book is a real learning experience.

I know what you mean. It is complex. Also, I get confused because there is no total circuit diagram, but instead all the pieces are collected together "on the fly" with many excursions into throw-away designs along the way. I think I am going to have to draw it all out on a big piece of

paper to really understand how it works.

Then I think I would like to try programming it on a PIC microprocessor instead of an 80C31. Comments?

> In my opinion, discussion of this book/rig/system belongs right here on
>the QRP list. This is precisely the kind of of subject many of us read the
>list for. I am here to be educated. Aintchu? And, as always, there is the
>delete key.

>72,

>Preston WJ2V

I would like to keep the discussion going also.

- Craig, AA0ZZ

Date: Sat, 7 Jun 1997 21:59:18 -0400
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
To: neon@iastate.edu
Cc: qrp-l <qrp-l@Lehigh.EDU>, VHF Mailing list <vhf@w6yx.stanford.edu>
Subject: [21028] RF Interference in a Neon
Message-ID: <Pine.3.89.9706072156.D28818-01000000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

OK, so they bombard the radios with RF energy from 0-1000 MHz, but do they SEE how much RF energy the car puts out???

So far, in the interest of using my SSB/CW radios in the car, I have

- 1) Shielded the plug wires w/copper braid. The car ran like crap and I removed them (suspect has to do with impedance matching)
- 2) Grounded the exhaust pipe to the frame (did a fair amount of good)
- 3) Lifted "ground straps" and sanded under them, then sanded connectors and sealed using antioxidant compound (did a little, maybe)
- 4) Grounded the trunk lid to the frame (probably useless, but trivial)

As it stands, at idle there's not much noise, but at higher RPMs, it's a constant S-5 signal. Annoying. It USED to be a constant S-9, so it IS getting better...On top of that, the fan motor sings, RF-wise, like a banshee...

Short of building a copper box around the engine compartment, does anyone have any other guesses/proven fixes?

Next planned step - replace crummy wire grounding the hood wth heavy braid.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 140 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** Hamfest, life's simple joy *

Date: Sat, 07 Jun 1997 23:50:28 EDT
From: tahrens1@juno.com
To: qrp-l@Lehigh.EDU
Subject: [21029] W0CH - Dave, where are you?
Message-ID: <19970607.214525.4927.0.tahrens1@juno.com>

Dave - are you checking your e-mail?

Thanks,

Tim W5FN

Date: Sat, 07 Jun 1997 20:55:29
From: "M. Monninger" <markem@primenet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [21030] Re: Halogen lights & QRN source
Message-ID: <3.0.1.32.19970607205529.00970600@pop.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Before we condemn all halogen lights, be aware that there are different types. I think that most of the comments so far have been about those !@#\$\$%&* el-cheapo thorchiere-type lamps that you buy at Home Depot, etc. for \$13.95. The ones with the noisy dimmers and 600W elements that fry

bugs, stink up the place, and are fire hazards. There are other halogen systems that are really pretty nice and work well. They're tiny little built-in fixtures that run low voltage elements (24v, I think). They are considerably different. Go to a good lighting shop and check them out. Very different than the Home Depot/K-Mart/WalMart specials. Of course, any dimmer circuit has the potential to be noisy but the better designed ones are more tolerable.

Not sure what this has to do with QRP, but....

73... Mark AA7TA

Date: Sat, 7 Jun 1997 21:08:59 -0700 (PDT)
From: Michael Vines <mvines@pacbell.net>
To: qrp-1@Lehigh.EDU
Subject: [21031] Battery Chargers
Message-ID: <2.2.16.19970607210631.1ea750aa@pacbell.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks to all who sent email about my post for recommended battery chargers. I received several recommendations for the A&A Engineering Smart Charger, Jade battery controllers, a couple projects available from Far Circuits, and a few odd ball chargers available at K-Mart and Fry's Electronics.

After several hours researching the available data on the Web, and receiving catalogs from the above, I pretty much decided on the A&A Engineering Smart Battery Charger kit for \$59.95 plus tax and shipping. Well, since I'm in the process of building several antennas, and wanted to get away from antenna bridges and trim sprints, I back-burnered the battery charger idea and sent away for an Autek RF-1.

While browsing the Auto Department at K-Mart the other day, I ran across one of the charger recommendations, the Exide, Model 7001204, Onboard Battery Charger. It was the only one left, and they didn't have what I went there for in the first place...well--you know.

Ten miles and twenty-five bucks later, I had a 12V, 1.5A "Fully Automatic" charger for my 6.5A sealed lead-acid battery.

Being only 5"x3.5"x1.5" in size (plus the mounting flanges), it fits nicely on top of my overcrowded shack/office desk. I replaced the crimp-on connectors with slip terminals and connected it to my battery, along with a Fluke 867B to monitor the voltage on the new addition in min-max mode.

My battery, gutted out of one of those silly Power Station things I fell for a couple of years ago, sat unloaded at 10.2V. Upon applying power for the first time, a red LED mounted on top of the unit glows steadily. The charge voltage started at 14.1V, then began to pulse after a few minutes. The enclosed data sheet says the charger turns on at 14.1V, and off at 13.1V. I monitored the setup for a couple of hours and found that it apparently switches on/off at varying rates depending on battery condition. The pulses varied from 5-10 second on times, to about half-second pulses until it was brought up to 12.3V. There was no detectable temperature change on the battery, and it was safely resurrected within three hours. The charger monitors battery voltage so it can be left on indefinitely without overcharging like the higher priced units.

It also has reverse and short circuit protection by measuring voltage before enabling the output. Not bad for twenty-five bucks.

All disclaimers apply.

Thanks again for the info.

Mike, N6HVP

Date: Sun, 08 Jun 1997 04:18:24 +0100
From: "Brian K. Short" <ke7gh@primenet.com> (by way of "Brian K. Short" <KE7GH@PRIMENET.COM>)
To: QRP-1@Lehigh.EDU
Subject: [21032] FS Bencher Paddle
Message-ID: <3.0.1.32.19970608041824.007132d0@mailhost.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

FS Bencher Iambic Paddle (Black) \$50 + s/h (\$3)

WTB Collector of older RTTY terminal units and SSTV scan converters looking for more to add to collection, including: Robot 400, Hal ST-7000 other commercial or homebrew RTTY/SSTV equipment (IRL, Flescher, Frederick, Dovetron, etc)

Brian Short 1994 E Laguna Dr Tempe, Az 85282 (602)839-3484
k7on@qsl.net >or< ke7gh@primenet.com <http://www.qsl.net/k7on>

Date: 08 Jun 97 00:19:02 EDT
From: Ricky McNelly <72507.235@compuserve.com>
To: <qrp-1@Lehigh.EDU>
Subject: [21033] Re: Battery Recharge Help
Message-ID: <970608041902_72507.235_EHM65-2@CompuServe.COM>

To: > INTERNET:qrp-1@Lehigh.EDU

I've got one of these. The center conductor on mine is NEGATIVE!!
You should be able to check with a meter from the center conductor to
the cigarette lighter jack to check polarity.

I charge mine with a 800ma wall wart.

72/73's,

--Rick, KE4IZH

Chesapeake, VA 06/07/97.

Date: Sat, 7 Jun 1997 22:38:56 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-1@Lehigh.EDU
Subject: [21034] Re: RF Interference in a Neon
Message-ID: <19970607.224117.9894.2.gsurrency@juno.com>

Have you contacted your dealer or Chrysler about this problem? No,
seriously. Sometimes the manufacturer has some kits and/or info on
cleaning up the RFI.
Don't overlook the fuel injection pump. Most are mounted inside the tank
these days, but they still aren't well suppressed.

Scott,

Get a AM radio and use it to "sniff" the hot stops out. You may be able
to zero in on the worst RFI emitters that way. Partial shielding of the
AM radio may be needed to reduce the strength of the interference so you

can tell where it is coming from. Try a single shorted turn of wire around the AM radio's loopstick. I used to do this to loud radios kids played on the bus I rode to high school. They never did catch on, until they relented and agreed to turn the volume down. Then I would casually remove the shorted turn from the loopstick and all was well as it was before. ;-)

Also, ask Ed Hare at the ARRL about this. He's Mr. RFI. :-)

Ed, are you listening?

Of course, you could always trade for a diesel if nothing else works.....

72 and good luck,

Gary Surrency AB7MY
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH
Az ScQRPions

Date: Sun, 8 Jun 1997 06:49:09 -0400 (EDT)
From: Bigbob97@aol.com
To: ripowell@mpna.com, QRP-L@Lehigh.EDU
Subject: [21035] Re: The New Wilderness SST Transceiver
Message-ID: <970608064907_-960463269@emout16.mail.aol.com>

Richard:
I use draino crystals. No you don't have to repaint. The finish is stable in that it doesn't discolor like "raw" aluminum. However, if you scratch it you will see the shiny aluminum underneath. So, the finish is very thin.
Bob WB2DHK

Date: Sun, 8 Jun 1997 05:46:37 -0400
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
To: VHF Mailing list <vhf@w6yx.stanford.edu>, qrp-l <qrp-l@Lehigh.EDU>
Subject: [21036] RFI in my Neon, continued
Message-ID: <Pine.3.89.9706080510.A29294-01000000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

UPDATE, ANSWERING QUESTIONS:

I have received a bunch of good replies, but apparently at the hour at which the note was written, I neglected a few obvious points.

Background:

1995 Dodge Neon. Ignition system consists of a pair of coils (call it the ignition module) which is allowed to fire given signals from the computer. It sits on top of the engine. Plug wires ("electronic suppression" they're stamped) are 8"-12" long and run straight to the cylinders. VERY short runs.

Alternator whine is nil, and fuel pump noise is also nil. It's a spark gap rig, yup.

I ran into the Dodge boys at Dayton and they seemed surprised I was having such problems. I'd rented a Caravan (1997) in February and had serious spark noise as well. I suspect that nobody REPORTS it because it's a given...or is it?

Of course, they weren't specifically the EMI folks.

Radio used:

Alinco DX-70T, with a fair noise blanker, BUT I want to kill the problem whence it begins, not after the fact.

Things done to date:

- 1) Ran new wire run straight to battery, independently fused.
- 2) Wrapped power cord around toroidal transformer (nothing's coming in on the power, evidenced by disconnecting the ant...)
- 3) Shielded the plug wires w/copper braid. The car ran like crap and I proceeded to remove them in short order.
- 4) Grounded the exhaust pipe to the frame (did a fair amount of good)
- 5) Lifted "ground straps" and sanded under them, then sanded connectors and sealed using antioxidant compound (did a little, maybe)
- 6) Grounded the trunk lid to the frame (probably useless, but trivial)
As it stands, at idle there's not much noise, but at higher RPMs, it's a constant S-5 signal. Annoying. It USED to be a constant S-9, so it IS getting better...On top of that, the fan motor sings, RF-wise, like a banshee...

The noise is worse on 40 and 80m than it is on 20m.

Short of building a copper box around the engine compartment, does anyone have any other guesses/proven fixes?

I'm actually considering building 5/6 of a copper box and placing it over the ignition module.

Next planned step - replace crummy wire grounding the hood with heavy braid.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 140 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** Hamfest, life's simple joy *

Date: Sun, 08 Jun 1997 06:41:50 -0500
From: AA0QX <AA0QX@prodigy.net>
To: QRP List <qrp-l@Lehigh.EDU>
Subject: [21037] Halogen Lights and QRN
Message-ID: <339A9A7E.3F5C@prodigy.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have a 500 watt halogen lamp right next to my rig and it gives me no QRN at all.

72 de Austin aa0qx

Date: Sun, 08 Jun 1997 06:49:12 -0500
From: AA0QX <AA0QX@prodigy.net>
To: Doug Faunt N6TQS +1-510-655-8604 <faunt@netcom.com>
Cc: qrp-l@Lehigh.EDU
Subject: [21038] Re: [20988] Build Your Own Intelligent Amateur Radio Transceiver
Message-ID: <339A9C38.487@prodigy.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Doug Faunt N6TQS +1-510-655-8604 wrote:

>

> I dunno. A VCO with a motor and a drum seems like a strange way to
> go, but YMMV.

> 73, doug
>
> Date: Fri, 06 Jun 1997 21:56:20 -0500
> From: AA0QX <AA0QX@prodigy.net>
>
> I, too, am planning to purchase this book, and I'm interested in
> building the rig if there are those who want to order parts together.
>
> Thanks,
>
> Austin AA0QX

I met Randy Henderson, the author of this book, at an Oklahoma City QRP club meeting last month. I'll try and ask him about it at the next meeting.

73, Austin

Date: Sun, 8 Jun 1997 08:48:40 -0400 (EDT)
From: Bigbob97@aol.com
To: QRP-L@Lehigh.EDU
Subject: [21039] Aluminum case and Drano
Message-ID: <970608084839_1342856527@emout11.mail.aol.com>

Hi all,
For those giving cautions, thank you! Watch it with the Drano! However, if you ever get to Jersey City and want a cup of the java I drink in the morning... well, it will work just as well. So, in my house I take exactly the same precautions when using Drano as I take when making coffee.

Two points: the finish achieved with this process is conductive which I find desirable. Also, before soaking in Drano I either wire brush the case, or use sandpaper, or use steel wool. This depends on the state of the case. I often reuse aluminum - many times I have to straighten it out and rebend it. This leaves tool marks, etc. Such cases call for the wire brush treatment! Removes many marks and scratches.

73, Gud luck and be careful if you try this.
Bob WB2DHK

Date: Sun, 08 Jun 1997 09:25:39 -0400
From: Richard Powell <ripowell@mpna.com>

To: qrp-1@Lehigh.EDU
Subject: [21040] Re: RFI in my Neon, continued
Message-ID: <1.5.4.32.19970608132539.006a8940@smtp.mpna.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Buy a Sable.
/rick

At 05:46 AM 6/8/97 -0400, you wrote:

>UPDATE, ANSWERING QUESTIONS:

>

>I have received a bunch of good replies, but apparently at the hour
>at which the note was written, I neglected a few obvious points.

>

>Background:

>

>1995 Dodge Neon. Ignition system consists of a pair of coils
>(call it the ignition module) which is allowed to fire given
>signals from the computer. It sits on top of the engine. Plug
>wires ("electronic suppression" they're stamped) are 8"-12" long
>and run straight to the cylinders. VERY short runs.

>

>Alternator whine is nil, and fuel pump noise is also nil. It's
>a spark gap rig, yup.

>

>I ran into the Dodge boys at Dayton and they seemed surprised I
>was having such problems. I'd rented a Caravan (1997) in February
>and had serious spark noise as well. I suspect that nobody REPORTS
>it because it's a given...or is it?

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>Of course, they weren't specifically the EMI folks.

>

>Radio used:

>

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>kill the problem whence it begins, not after the fact.

>

>Things done to date:

>

>1) Ran new wire run straight to battery, independently fused.

>

>2) Wrapped power cord around toroidal transformer (nothing's
>coming in on the power, evidenced by disconnecting the ant...)

>

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>crap and I proceeded to remove them in short order.

>

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>
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>
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>As it stands, at idle there's not much noise, but at higher RPMs, it's a
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>banshee...
>
>The noise is worse on 40 and 80m than it is on 20m.
>
>Short of building a copper box around the engine compartment, does anyone
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>
>I'm actually considering building 5/6 of a copper box and placing it
>over the ignition module.
>
>Next planned step - replace crummy wire grounding the hood wth heavy braid.
>
>* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
>*** 6m 75 grids worked on 8 watts *** HF 140 cfmd * QRP-L #147 ***
>** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
>* 301-549-1022 h / 301-982-1015 w *** Hamfest, life's simple joy *

```

+-----+
|Richard Powell                    513-942-2542 (h) |
|Systems Integration               513-403-5083 (c) |
|Vertical Solutions Inc.          513-891-7997 (w) |
|http://www.vertsol.com           513-891-8063 (f) |
|ripowell@mpna.com                http://www.mpna.com/ripowell |
+-----+

```

Date: Sun, 08 Jun 1997 10:21:49 EDT
From: n4so@juno.com
To: qrp-l@Lehigh.EDU
Subject: [21041] Automotive RFI series in QST
Message-ID: <19970608.101659.5215.9.N4SO@juno.com>

This involves QRP if you are mobile and low power.

Various QST magazine articles have discussed RFI to autos in Ed Hare's series on

automotive RFI in Sept 1994 QST, p. 51, and March 1995 QST page 74 and other letters and comments followed in later issues.

The June QST of 1995, p.81, mentions an RF shielding package for a Ford Taurus, for example which could be bought extra as a "police package". This evidently shields the police radios from RFI but is not installed in the majority of the dealer cars.

(additional comments in QST 1995 Sep. p72, June p81 and Aug. p77.)

Ken Brown , N4SO

QTH: Nr Mobile, AL

QRP-L #622

n4so@juno.com

Date: Sun, 8 Jun 97 07:27:24 +0000

From: tgordish@concentric.net

To: <ripowell@mpna.com>, "qrp-l" <qrp-l@Lehigh.EDU>

Subject: [21042] Re: The New Wilderness SST Transceiver

Message-ID: <199706081427.KAA13282@mcfeely.concentric.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

I have used this Drano "Anodizing" process before with cast aluminum sculpture. It is basically corrosion, and will last indefinitely depending on how deeply it is scratched. This will only work on aluminum, and you can use lye instead of Drano.

Tim & Aretta Gordish

KB9LGJ & N0YDG

Yuma, AZ

All the nations may walk in the name of their gods, we walk in the name of the Lord our God for ever and ever" Micah 4:5

Date: Sun, 08 Jun 1997 10:04:20 -0700

From: Dana E Hager <dehager@ix.netcom.com>
To: qrp-l@Lehigh.EDU
Cc: paulc@mediaone.net
Subject: [21043] Re: anodizing
Message-ID: <339AE614.628D@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

There are some metal coloring products from Small Parts Inc that you may find interesting. The products are made by the Birchwood Casey Co and require no special tools or heat.

Here is a list:

Super Blue - deep blue/black finish 3 fl.oz. \$7.28
Aluminum Black - pewter to deep black 3 fl.oz. \$8.03
Brass Black - for use on brass or copper 3 fl.oz. \$8.03

The phone number is:

Small Parts Inc.
V 1 305 557-8222
F 1 800 423-9009

Stop by your local Gun Shop and Stained Glass supply house. They also have a number of metal coloring liquids.

Dana E Hager
Nazareth, PA

Date: Sun, 08 Jun 1997 10:54:51 EDT
From: n4so@juno.com
To: qrp-l@Lehigh.EDU
Subject: [21044] QRPP Journal Dec. 1996
Message-ID: <19970608.104943.5215.11.N4SO@juno.com>

Received two copies of the December 1996 QRPP Journal from NorCal.
If you absolutely never received the December issue 1996 E-mail me, with your Snail adr....

Ken Brown , N4SO
QTH: Nr Mobile, AL
QRP-L #622
n4so@juno.com

Date: Sun, 8 Jun 1997 11:51:49 -0400
From: Craig LaBarge <LaBarge_C@CompuServe.COM>
To: QRP-L Mailing List <qrp-l@Lehigh.EDU>
Subject: [21045] Rainbow bridge, tuners, etc.
Message-ID: <199706081151_MC2-180D-CD0@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Gang:

I finally got around to dealing with some half-finished projects that I've
e
had laying around here for a while (I have to clear the decks for the new=
SST when it arrives!). The first project was to build and package up th=
e
SWR bridge portion of N2CX's Rainbow Tuner. I've been looking for a good=
SWR indicator for field use and it looks like this one fits the bill
exactly. It's simple to operate, accurate, handles QRPP-level signals, a=
nd
it's "final-friendly" while tuning up. I originally intended to built th=
e
Rainbow bridge into a small box with a version of W6JJZ's Z-match tuner
(which has been described in past QRP Quarterly articles). In the end, I=
opted to build them into separate enclosures for flexibility. I wound up
putting the Rainbow bridge into a box which is 3-3/4 x 3 x 2-1/8 inches a=
nd
fitted it up with SO-239 connectors. I could have cut the unused tuner
portion off of the board, used BNC connectors, and crammed it all into a=
much smaller package, I guess, but its current size is good enough for my=
purposes and will make a good, general purpose SWR bridge around the shac=
k,
too. I'm really impressed with how the bridge works. I tested it by
putting it in series with another bridge while I loaded up my rainspout
antenna and it worked like a charm. Joe, N2CX, came up with one heck of =
a
great design here. I'll probably wind up building another one with the
tuner for a more "trail-friendly" configuration.

The second project was to come up with a small transmatch for the field that would also handle balanced loads. I built Charlie Lofgren's (W6JJZ=)

Z-match design from scratch, using a couple of those miniature plastic tuning caps from Mouser. It was a lot of fun to build this thing and it=

fit nicely in a small enclose that I had on hand. It's actually smaller than the above SWR bridge. I played with it on the bench with an Autek RF-1 and it seems to match a wider range of loads than some commercial tuners I have. Charlie is also to be commended for a great design.

So now I'm looking forward to using some of these new toys while on vacation this summer. I'm also hoping my new SST for 30 meters arrives soon so I can take it along, too.

73, Craig WB3GCK

Date: Sun, 8 Jun 1997 12:06:10 -0400 (EDT)
From: K4NK@aol.com
To: qrp-1@Lehigh.EDU
Subject: [21046] TT 1340
Message-ID: <970608120609_388314243@emout05.mail.aol.com>

Gang;

Just finished my Ten Tec 1340 kit last nite. It worked well from the first power up. I will say the rcvr is very good and copys every signal I could hear with my Argo. I'm very pleased.

72 Les K4NK

Date: Sun, 08 Jun 1997 12:10:24 -0400
From: "Kenneth W. Evans" <w4du@bellsouth.net>
To: qrp-1@Lehigh.EDU
Subject: [21047] FS:GM30
Message-ID: <339AD970.BC3@bellsouth.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I find myself with too many 30 meter rigs. So I have an unbuilt, GM-30.
Never opened ready for the soldering iron.

\$65.00 with shipping in USA.

Contact me direct via e-mail.

Ken w4du@bellsouth.net
W4DU

Date: Sun, 08 Jun 1997 12:23:48 -0400
From: Mark Gilger <mgilger@concentric.net>
To: qrp-1@Lehigh.EDU
Subject: [21048] INFORMATION J-38 KEYS
Message-ID: <3.0.32.19970608122132.006da8ec@pop3.concentric.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Some time back someone was advertising new J-38's for sale. Does anyone
still have the listing
or know if they are still available.?
Mark #870

Date: Sun, 08 Jun 1997 16:36:02 +0100
From: "Brian K. Short" <KE7GH@primenet.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [21049] FS Bencher Paddle
Message-ID: <3.0.1.32.19970608163602.007306d4@mailhost.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

FS Bencher Iambic Paddle (Black) \$50 + s/h (\$3) obo

WTB Collector of older RTTY terminal units and SSTV scan
converters looking for more to add to collection, including:
Robot 400, Hal ST-7000 other commercial or homebrew RTTY/SSTV
equipment (IRL, Flescher, Frederick, Dovetron, etc)

Brian Short 1994 E Laguna Dr Tempe, Az 85282 (602)839-3484
k7on@qsl.net >or< ke7gh@primenet.com <http://www.qsl.net/k7on>

Date: Sun, 08 Jun 1997 09:37:09 -0700
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>
To: qrp-1@Lehigh.EDU
Cc: turner@safety.ICS.UCI.EDU
Subject: [21050] crystal filter question
Message-ID: <12724.865787829@safety.ics.uci.edu>

Hello All:

Forgive me if this particular subject has been discussed here, I subscribe only to the digest and have limited time to read (except for software testing literature, hi hi). If it has, let me know, I will go back and read the archives.

My question: I have an Argonaut 515 and the 4 pole filter seems less than I want. In particular, when I tune "down" in LSB and go past the center freq and through where the other sideband is, I eventually get to a place where there is a lot of high pitched stuff coming through. It seems to be quite a ways down from where the center freq should be, it is not just the other sideband coming through, but the outer skirts of the other sideband come through. It only happens on strong signals, but my other radios do not exhibit this behavior, it is not overload as I understand it.

I replaced the 4 pole filter with an 8 pole filter hoping that would fix the problem. It did not. I then figured I needed a lot of shielding and grounding for the filter, so I put the filter on copper board and used RG 174/U even for short runs in the area. No help.

The one thing that seems to cure the problem is putting the 4 pole filter back in the RX line where I was going to stick in a CW crystal filter. It really seems to reduce, if not eliminate the problem.

Now, I have no problem putting in 12 poles of filtering for the SSB line in order to cure the problem, but I wonder if anyone has any ideas what the source of the problem is? Also, if the problem

is inherent, would it be better to stick the 4 pole filter back in the standard slot where the problem originates and put the 8 pole filter in the RX line only where it reduces the problem? I plan to put in some relays and switch in a CW filter here from the mode switch too.

I haven't set the carrier oscillators in this rig. Could they be off frequency and cause this behavior? I plan to borrow a good freq counter and do this soon. Ah, I haven't looked at the other sideband behavior, I will check USB on strong 20 meter signals today.

Anyway, thanks for reading. I would love suggestions and possible answers. I am also happy to further discuss this with anyone interested, including letting you know my eventual solutions.

Clark
WA3JPG

Date: Sun, 08 Jun 1997 11:54:18 -0700
From: Neil Heckt <neil@aaade.com>
To: qrp-1@Lehigh.EDU
Subject: [21051] AADE Filter Design Update
Message-ID: <339AFFDA.5038@aaade.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

A customer found a bug in Version 1.4. UTILITIES | ENTER DESIGN allows you to enter the schematic and parts list of a filter from a book or magazine for analysis. The program normally saves design specifications for those filters which it designed and uses them to set defaults for analysis. In the case of ENTER DESIGN it does not know the design specifications and saved a bad piece of data. Trying to LOAD the filter caused a runtime error 13 and the program aborts.

Version 1.6 fixes the problem by storing dummy values for design parameters thus producing dummy default analysis parameters that usually work as a firsts analysis attempt.

To update to version 1.6, go to my web page and follow the thread to the download page. Download filter.zip, unzip it and replace the

filter.exe program where ever you installed it.

--

Neil

Homebrew Heaven at <http://www.aade.com>

Home of L/C Meter IIB and Digital Frequency Display

Links to sites of interest to Engineers, Amateurs and hobbyists
interested in Circuit Design and construction.

Almost All Digital Electronics

1412 Elm St. SE

Auburn, WA 98092

253-351-9316

Date: Sun, 08 Jun 1997 15:23:28 -0400

From: Richard Powell <ripowell@mpna.com>

To: qrp-1@Lehigh.EDU

Subject: [21052] Re: TT 1340

Message-ID: <1.5.4.32.19970608192328.006a6e4c@smtp.mpna.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Got any hard current draw numbers yet?

ie... no audio receive, full audio receive,,, lowest power TX, max power TX?
/rick

At 12:06 PM 6/8/97 -0400, you wrote:

>Gang;

> Just finished my Ten Tec 1340 kit last nite. It worked well from the first
>power up. I will say the rcvr is very good and copys every signal I could
>hear with my Argo. I'm very pleased.

>

>

72 Les K4NK

>

>

>

+-----+

Richard Powell	513-942-2542 (h)
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Systems Integration	513-403-5083 (c)
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Vertical Solutions Inc.	513-891-7997 (w)
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http://www.vertsol.com	513-891-8063 (f)
---	------------------

ripowell@mpna.com	http://www.mpna.com/ripowell
--	---

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Date: Sun, 08 Jun 1997 19:07:17 GMT
From: n4js@amsat.org (John Sielke)
To: qrp-l@Lehigh.EDU
Subject: [21053] HW8 question
Message-ID: <339d0218.1400193@mail.cyberenet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

A question for all you HW8 gurus out there.

I recently acquired an HW8. The receiver works well. I had a BC station that blanketed 20 (SW BC), but retuning the mixer slightly cleared it pretty well. Power out is OK on all bands except 40. (Even on 15 I have 2 watts out.) On 40, however, I only have .5 watt. No amount of retuning helps.=20

Has somebody "been there, done that?"

John L. Sielke	n4js@amsat.org	n4js@pobox.com
n4js@n4js.ampr.org	NJ Grid:FM29LN	
http://www.qsl.net/n4js		
NJ-QRP #57	QRP-L #884	QRP-ARCI #9328
NE-QRP #507	G-QRP #9544	NorCal #1989 CQC CQRP QCWA FISTS #2781

Date: Sun, 8 Jun 1997 15:04:07 -0500 (CDT)
From: Raventhorne <jelder@ix.netcom.com>
To: vintage@best.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [21054] Re: QEX Subscribers take note
Message-ID: <2.2.16.19970608125425.39df5ab8@popd.ix.netcom.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 05:22 PM 6/6/1997 -0700, Robert P. Okas wrote:

>I'm sad to hear this. My desire for articles with a higher technical
>content than those typically found in QST was satisfied by QEX. Where to
>go now?

I recently ran across a box of old ham radio mags from the mid 70's

(included the 1 year anniversary issue of BYTE, too). The technical content of QST was much higher than it is now . . . much closer to QEX.

72,

John

@~~~

@ John Elder, Ko6TS

@ PHROG (Pagan Ham Radio Operators' Guild)

@ Box 232, El Segundo, CA 90245

@ So many fools, so few comets . . .

Date: Sun, 08 Jun 97 13:04:00 PDT
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
To: qrp-1@Lehigh.EDU
Subject: [21055] Re: W7EL's address

>From: cooper@gmpvt.com (Tom Cooper)
>If you happen to know W7EL's e-mail address, please let me
>in on the secret. Thanks! Tom W1EAT

Hi Tom, I didn't see an answer so far. It's W7EL@teleport.com

73, Cecil, W6RCA, 00TC

Date: Sun, 08 Jun 1997 21:35:54 GMT
From: n4js@amsat.org (John Sielke)
To: qrp-1@Lehigh.EDU
Subject: [21056] HW8 toroids
Message-ID: <339d24cc.10285313@mail.cyberenet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

Well, it seems unanimous that it sounds like my problem with low 40M output is a bad toroid core. OK, I've wound enough toroids, but, what is the core I need?

I have the "HW8 Handbook" at home (I'm at work, now). If the info is in there, just tell me to go RTFB, and I will. I don't remember seeing

exactly what I needed. I have an old MFJ422 keyer, and the add-on was just the ticket.

Got it built (very easy) and put it in an Altoids tin on top of the MFJ422 for easy access. Painted the Altoids tin flat black so it more or less matched the MFJ housing, and mounted four memory buttons in the lid. Looked real good, too.

I fired it up and, since it was playing real nice, I took it in the house to show the XYL. Pushed the buttons and it did its thing, nice as you could ask for.

Then I took it back out to the shack and plugged it into the intended external power source, 12v. Instant disaster. The MFJ keyer died on the spot. After checking the manual (again), it really didn't want to see 12v. It had always been run on the internal 9v battery or an external 5v wall wart.

Now, let me make it clear, there is no fault with the Island Memory add-on kit.

The problem was right here in the cockpit.

It seems that when I wired in a 7808 5v regulator to run the MFJ keyer and the memory kit, I missed the right spot by one trace when I was counting. There was no board pattern in the MFJ manual, so I had to trace it manually. I very neatly inserted the regulator between the 9v battery and the external power jack, so naturally it played just great on the battery.

When I plugged in external 12v though, it was on the wrong side of the regulator, and went directly into circuitry that didn't want to see more than 5v or so.

Let this be a lesson to those of you who, like me, like to modify and add-on to existing equipment. Be very sure of the land patterns you cut into. If necessary, take some extra time and check the path with an ohmmeter, just to be sure. One little mistake can cause a big disaster.

Well, the good news is that I am back on the air with a keyer after all. Chuck Olson, of Jackson Harbor Press, the creator of the Island Keyer, took pity on ol' fumble fingers and sold me his Island Keyer prototype. Got it installed in place of the failed MFJ circuit board, and it plays like a champ. I like the memory add-on kit's programming method better than the original Island Keyer, though, so have kept the Altoids package on top of the MFJ housing.

After taking great care, and rechecking with an ohmmeter three times, I have the package playing on internal battery or external battery. Only remaining things to do are insert a key line cutoff switch to allow programming without keying the rig, and changing the speed pot. The 1 Meg pot has the real slow and real fast speeds too close together, so I need a bit of bandspread here.

So, I guess the moral of this story is like the carpenters say, "Measure three times, cut once."

72, Bob N6WG

Date: Sun, 8 Jun 1997 15:01:00 -0500
From: Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
To: qrp-l@Lehigh.EDU
Subject: [21059] 24 hr clocks summary
Message-ID: <M1938516.001.hafk0.1.970608222831Z.CC-MAIL*/OU=LMPCC4/OU=ILBB/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Gang:

My apologies. I intended to put the summary together over the weekend and post it. However, I must have done something to the floppy disk I brought the data home on, 'cause it looks like an exercise in cryptography. I have all the info on my email machine at work, so will try to get it out sometime during MONDAY.

Watch this space!

My thanks to all who sent in info and opinions.

73, Bob N6WG

End of QRP-L Digest 751

